

SEQUENCE LISTING

(1) GENERAL INFORMATION

- (i) APPLICANT: Lynn Bergmeyer
Thomas J. Cummins
John B. Findlay
JoAnne H. Kerschner
- (ii) TITLE OF THE INVENTION: DIAGNOSTIC
COMPOSITIONS, ELEMENTS, METHODS AND TEST KITS
FOR AMPLIFICATION AND DETECTION OF HUMAN CMV
DNA USING PRIMERS HAVING MATCHED MELTING
TEMPERATURES
- (iii) NUMBER OF SEQUENCES: 26
- (iv) CORRESPONDENCE ADDRESS:
 - (A) ADDRESSEE: Eastman Kodak Company,
Patent Legal Staff
 - (B) STREET: 343 State Street
 - (C) CITY: Rochester
 - (D) STATE: New York
 - (E) COUNTRY: U.S.A.
 - (F) ZIP: 1 4 6 5 0 - 2 2 0 1
- (v) COMPUTER READABLE FORM:
 - (A) MEDIUM TYPE: Diskette, 3.5
inch, 1.44 MB storage (IBM)
 - (B) COMPUTER: IBM PS/2
 - (C) OPERATING SYSTEM: MS-DOS Version
3.3
 - (D) SOFTWARE: PC-8 (Word for Windows)
- (vi) CURRENT APPLICATION DATA:
 - (A) APPLICATION NUMBER: To Be Assigned
 - (B) FILING DATE: To Be Assigned
 - (C) CLASSIFICATION: To Be Assigned
- (vii) PRIOR APPLICATION DATE: None
- (viii) ATTORNEY/AGENT INFORMATION:
 - (A) NAME: Tucker, J. Lanny
 - (B) REGISTRATION NUMBER: 27,678
 - (C) REFERENCE/DOCKET NUMBER: 67270

- (ix) TELECOMMUNICATION INFORMATION:
 (A) TELEPHONE: (716) 722-9332
 (B) TELEFAX: (716) 477-4646

(2) INFORMATION FOR SEQ ID NO:1

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 25 nucleotides
 (B) TYPE: Nucleic acid
 (C) STRANDEDNESS: Single
 (D) TOPOLOGY: Linear
(ii) MOLECULE TYPE: Primer for hCMV DNA
(iii) HYPOTHETICAL: No
(iv) ANTI-SENSE: No
(vi) ORIGINAL SOURCE: Synthetically prepared
(vii) IMMEDIATE SOURCE: Same
(x) PUBLICATION INFORMATION: U.S. 5,147,777
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1

GAGGCTATTG TAGCCTACAC TTTGG 25

(3) INFORMATION FOR SEQ ID NO:2

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 25 nucleotides
 (B) TYPE: Nucleic acid
 (C) STRANDEDNESS: Single
 (D) TOPOLOGY: Linear
(ii) MOLECULE TYPE: Primer for hCMV DNA
(iii) HYPOTHETICAL: No
(iv) ANTI-SENSE: No
(vi) ORIGINAL SOURCE: Synthetically prepared
(vii) IMMEDIATE SOURCE: Same
(x) PUBLICATION INFORMATION: U.S. 5,147,777
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2

CAGCACCATC CTCCTCTTCC TCTGG 25

- (4) INFORMATION FOR SEQ ID NO:3
- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 25 nucleotides
 - (B) TYPE: Nucleic acid
 - (C) STRANDEDNESS: Single
 - (D) TOPOLOGY: Linear
 - (ii) MOLECULE TYPE: Primer for hCMV DNA
 - (iii) HYPOTHETICAL: No
 - (iv) ANTI-SENSE: No
 - (vi) ORIGINAL SOURCE: Synthetically prepared
 - (vii) IMMEDIATE SOURCE: Same
 - (x) PUBLICATION INFORMATION: None
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3

TGCACTGCCA GGTGCTTCGG CTCAT 25

- (5) INFORMATION FOR SEQ ID NO:4
- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 25 nucleotides
 - (B) TYPE: Nucleic acid
 - (C) STRANDEDNESS: Single
 - (D) TOPOLOGY: Linear
 - (ii) MOLECULE TYPE: Primer for hCMV DNA
 - (iii) HYPOTHETICAL: No
 - (iv) ANTI-SENSE: No
 - (vi) ORIGINAL SOURCE: Synthetically prepared
 - (vii) IMMEDIATE SOURCE: Same
 - (x) PUBLICATION INFORMATION: U.S. 5,147,777
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4

CACCACGCAG CGGCCCTTGA TGTTT 25

(6) INFORMATION FOR SEQ ID NO:5

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 30 nucleotides
 - (B) TYPE: Nucleic acid
 - (C) STRANDEDNESS: Single
 - (D) TOPOLOGY: Linear
- (ii) MOLECULE TYPE: Probe for hCMV DNA
- (iii) HYPOTHETICAL: No
- (iv) ANTI-SENSE: No
- (vi) ORIGINAL SOURCE: Synthetically prepared
- (vii) IMMEDIATE SOURCE: Same
- (x) PUBLICATION INFORMATION: U.S. 5,147,777
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5

GGTGTCACCC CCAGAGTCCC CTGTACCCGC 30

(7) INFORMATION FOR SEQ ID NO:6

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 30 nucleotides
 - (B) TYPE: Nucleic acid
 - (C) STRANDEDNESS: Single
 - (D) TOPOLOGY: Linear
- (ii) MOLECULE TYPE: Probe for hCMV DNA
- (iii) HYPOTHETICAL: No
- (iv) ANTI-SENSE: No
- (vi) ORIGINAL SOURCE: Synthetically prepared
- (vii) IMMEDIATE SOURCE: Same
- (x) PUBLICATION INFORMATION: U.S. 5,147,777
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:6

GACACAGTGT CCTCCCGCTC CTCCTGAGCA 30

(8) INFORMATION FOR SEQ ID NO:7

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 30 nucleotides
 - (B) TYPE: Nucleic acid
 - (C) STRANDEDNESS: Single
 - (D) TOPOLOGY: Linear
- (ii) MOLECULE TYPE: Probe for hCMV DNA
- (iii) HYPOTHETICAL: No
- (iv) ANTI-SENSE: No
- (vi) ORIGINAL SOURCE: Synthetically prepared
- (vii) IMMEDIATE SOURCE: Same
- (x) PUBLICATION INFORMATION: U.S. 5,147,777
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:7

GTGGAAGGCG GCTCGCTGGA AGCCGGTCGT 30

(9) INFORMATION FOR SEQ ID NO:8

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 30 nucleotides
 - (B) TYPE: Nucleic acid
 - (C) STRANDEDNESS: Single
 - (D) TOPOLOGY: Linear
- (ii) MOLECULE TYPE: Probe for hCMV DNA
- (iii) HYPOTHETICAL: No
- (iv) ANTI-SENSE: No
- (vi) ORIGINAL SOURCE: Synthetically prepared
- (vii) IMMEDIATE SOURCE: Same
- (x) PUBLICATION INFORMATION: U.S. 5,147,777
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:8

GAACCGAGGG CCGGCTCACC TCTATGTTGG 30

(10) INFORMATION FOR SEQ ID NO:9

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 41 nucleotides
 - (B) TYPE: Nucleic acid
 - (C) STRANDEDNESS: Single
 - (D) TOPOLOGY: Linear
- (ii) MOLECULE TYPE: Probe for HIV-I DNA
- (iii) HYPOTHETICAL: No
- (iv) ANTI-SENSE: No
- (vi) ORIGINAL SOURCE: Synthetically prepared
- (vii) IMMEDIATE SOURCE: Same
- (x) PUBLICATION INFORMATION: Unknown
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:9

ATCCTGGGAT TAAATAAAAT AGTAAGAATG TATAGCCCTA C 41

(11) INFORMATION FOR SEQ ID NO:10

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 28 nucleotides
 - (B) TYPE: Nucleic acid
 - (C) STRANDEDNESS: Single
 - (D) TOPOLOGY: Linear
- (ii) MOLECULE TYPE: Primer for HIV-I DNA
- (iii) HYPOTHETICAL: No
- (iv) ANTI-SENSE: No
- (vi) ORIGINAL SOURCE: Synthetically prepared
- (vii) IMMEDIATE SOURCE: Same
- (x) PUBLICATION INFORMATION: Unknown _____
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:10

AGTGGGGGGA CATCAAGCAG CCATGCAA 28

(12) INFORMATION FOR SEQ ID NO:11

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 26 nucleotides
 - (B) TYPE: Nucleic acid
 - (C) STRANDEDNESS: Single
 - (D) TOPOLOGY: Linear
- (ii) MOLECULE TYPE: Primer for HIV-I DNA
- (iii) HYPOTHETICAL: No
- (iv) ANTI-SENSE: No
- (vi) ORIGINAL SOURCE: Synthetically prepared
- (vii) IMMEDIATE SOURCE: Same
- (x) PUBLICATION INFORMATION: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:11

CTTGGTTCTC TCATCTGGCC TGGTGC 26

(13) INFORMATION FOR SEQ ID NO:12

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 28 nucleotides
 - (B) TYPE: Nucleic acid
 - (C) STRANDEDNESS: Single
 - (D) TOPOLOGY: Linear
- (ii) MOLECULE TYPE: Primer for HIV-I DNA
- (iii) HYPOTHETICAL: No
- (iv) ANTI-SENSE: No
- (vi) ORIGINAL SOURCE: Synthetically prepared
- (vii) IMMEDIATE SOURCE: Same
- (x) PUBLICATION INFORMATION: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:12

TAGCACCCAC CAGGGCAAAG AGAAGAGT 28

(14) INFORMATION FOR SEQ ID NO:13

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 28 nucleotides
 - (B) TYPE: Nucleic acid
 - (C) STRANDEDNESS: Single
 - (D) TOPOLOGY: Linear
- (ii) MOLECULE TYPE: Primer for HIV-I DNA
- (iii) HYPOTHETICAL: No
- (iv) ANTI-SENSE: No
- (vi) ORIGINAL SOURCE: Synthetically prepared
- (vii) IMMEDIATE SOURCE: Same
- (x) PUBLICATION INFORMATION: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:13

AGATGCTGTT GCGCCTCAAT AGCCCTCA 28

(15) INFORMATION FOR SEQ ID NO:14

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 28 nucleotides
 - (B) TYPE: Nucleic acid
 - (C) STRANDEDNESS: Single
 - (D) TOPOLOGY: Linear
- (ii) MOLECULE TYPE: Probe for HIV-I DNA
- (iii) HYPOTHETICAL: No
- (iv) ANTI-SENSE: No
- (vi) ORIGINAL SOURCE: Synthetically prepared
- (vii) IMMEDIATE SOURCE: Same
- (x) PUBLICATION INFORMATION: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:14

GAGACCATCA ATGAGGAAGC TGCAGAAT 28

(16) INFORMATION FOR SEQ ID NO:15

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 28 nucleotides
 - (B) TYPE: Nucleic acid
 - (C) STRANDEDNESS: Single
 - (D) TOPOLOGY: Linear
- (ii) MOLECULE TYPE: Probe for HIV-I DNA
- (iii) HYPOTHETICAL: No
- (iv) ANTI-SENSE: No
- (vi) ORIGINAL SOURCE: Synthetically prepared
- (vii) IMMEDIATE SOURCE: Same
- (x) PUBLICATION INFORMATION: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:15

GTGCAGCAGC AGAACAATTT GCTGAGGG 28

(17) INFORMATION FOR SEQ ID NO:16

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 27 nucleotides
 - (B) TYPE: Nucleic acid
 - (C) STRANDEDNESS: Single
 - (D) TOPOLOGY: Linear
- (ii) MOLECULE TYPE: Primer for hCMV DNA
- (iii) HYPOTHETICAL: No
- (iv) ANTI-SENSE: No
- (vi) ORIGINAL SOURCE: Synthetically prepared
- (vii) IMMEDIATE SOURCE: Same
- (x) PUBLICATION INFORMATION: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:16

CATTCCCACT GACTTTCTGA CGCACGT 27

(18) INFORMATION FOR SEQ ID NO:17

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 24 nucleotides
 - (B) TYPE: Nucleic acid
 - (C) STRANDEDNESS: Single
 - (D) TOPOLOGY: Linear
- (ii) MOLECULE TYPE: Primer for hCMV DNA
- (iii) HYPOTHETICAL: No
- (iv) ANTI-SENSE: No
- (vi) ORIGINAL SOURCE: Synthetically prepared
- (vii) IMMEDIATE SOURCE: Same
- (x) PUBLICATION INFORMATION: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:17

TGAGGTCGTG GAACTTGATG GCGT 24

(19) INFORMATION FOR SEQ ID NO:18

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 30 nucleotides
 - (B) TYPE: Nucleic acid
 - (C) STRANDEDNESS: Single
 - (D) TOPOLOGY: Linear
- (ii) MOLECULE TYPE: Probe for hCMV DNA
- (iii) HYPOTHETICAL: No
- (iv) ANTI-SENSE: No
- (vi) ORIGINAL SOURCE: Synthetically prepared
- (vii) IMMEDIATE SOURCE: Same
- (x) PUBLICATION INFORMATION: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:18

GGTCATCGCC GTAGTAGATG CGTAAGGCCT 30

(20) INFORMATION FOR SEQ ID NO:19

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 26 nucleotides
 - (B) TYPE: Nucleic acid
 - (C) STRANDEDNESS: Single
 - (D) TOPOLOGY: Linear
- (ii) MOLECULE TYPE: Primer for avian endogenous provirus ev-1 DNA
- (iii) HYPOTHETICAL: No
- (iv) ANTI-SENSE: No
- (vi) ORIGINAL SOURCE: Synthetically prepared
- (vii) IMMEDIATE SOURCE: Same
- (x) PUBLICATION INFORMATION: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:19

GGAATGACGC AAGGACATAT GGGCGT 26

(21) INFORMATION FOR SEQ ID NO:20

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 26 nucleotides
 - (B) TYPE: Nucleic acid
 - (C) STRANDEDNESS: Single
 - (D) TOPOLOGY: Linear
- (ii) MOLECULE TYPE: Primer for avian endogenous provirus ev-1 DNA
- (iii) HYPOTHETICAL: No
- (iv) ANTI-SENSE: No
- (vi) ORIGINAL SOURCE: Synthetically prepared
- (vii) IMMEDIATE SOURCE: Same
- (x) PUBLICATION INFORMATION: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:20

CCCAGGTGCA CACCAATGTG GTGGAT 26

(22) INFORMATION FOR SEQ ID NO:21

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 25 nucleotides
 - (B) TYPE: Nucleic acid
 - (C) STRANDEDNESS: Single
 - (D) TOPOLOGY: Linear
- (ii) MOLECULE TYPE: Primer for positive control target DNA
- (iii) HYPOTHETICAL: No
- (iv) ANTI-SENSE: No
- (vi) ORIGINAL SOURCE: Synthetically prepared
- (vii) IMMEDIATE SOURCE: Same
- (x) PUBLICATION INFORMATION: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:21

GGACTGTGCG CGTTGTATAC CCTGC 25

(23) INFORMATION FOR SEQ ID NO:22

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 25 nucleotides
 - (B) TYPE: Nucleic acid
 - (C) STRANDEDNESS: Single
 - (D) TOPOLOGY: Linear
- (ii) MOLECULE TYPE: Primer for positive control target DNA
- (iii) HYPOTHETICAL: No
- (iv) ANTI-SENSE: No
- (vi) ORIGINAL SOURCE: Synthetically prepared
- (vii) IMMEDIATE SOURCE: Same
- (x) PUBLICATION INFORMATION: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:22

ACTCCCGAAG CGAATGGCAC GTGGA 25

(24) INFORMATION FOR SEQ ID NO:23

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 25 nucleotides
 - (B) TYPE: Nucleic acid
 - (C) STRANDEDNESS: Single
 - (D) TOPOLOGY: Linear
- (ii) MOLECULE TYPE: Primer for positive control target DNA
- (iii) HYPOTHETICAL: No
- (iv) ANTI-SENSE: No
- (vi) ORIGINAL SOURCE: Synthetically prepared
- (vii) IMMEDIATE SOURCE: Same
- (x) PUBLICATION INFORMATION: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:23

CATAGCTTGT GCCCGTGTGG CACGT 25

(25) INFORMATION FOR SEQ ID NO:24

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 25 nucleotides
 - (B) TYPE: Nucleic acid
 - (C) STRANDEDNESS: Single
 - (D) TOPOLOGY: Linear
- (ii) MOLECULE TYPE: Primer for positive control target DNA
- (iii) HYPOTHETICAL: No
- (iv) ANTI-SENSE: No
- (vi) ORIGINAL SOURCE: Synthetically prepared
- (vii) IMMEDIATE SOURCE: Same
- (x) PUBLICATION INFORMATION: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:24

CCAAGACGAG ACCGTCAGAG CTGGT 25

(26) INFORMATION FOR SEQ ID NO:25

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 26 nucleotides
 - (B) TYPE: Nucleic acid
 - (C) STRANDEDNESS: Single
 - (D) TOPOLOGY: Linear
- (ii) MOLECULE TYPE: Probe for avian endogenous provirus ev-1 DNA
- (iii) HYPOTHETICAL: No
- (iv) ANTI-SENSE: No
- (vi) ORIGINAL SOURCE: Synthetically prepared
- (vii) IMMEDIATE SOURCE: Same
- (x) PUBLICATION INFORMATION: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:25

AAGCTGTTGC CGCCATCAAA TAAACG 26

(27) INFORMATION FOR SEQ ID NO:26

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 30 nucleotides
 - (B) TYPE: Nucleic acid
 - (C) STRANDEDNESS: Single
 - (D) TOPOLOGY: Linear
- (ii) MOLECULE TYPE: Probe for positive control target DNA
- (iii) HYPOTHETICAL: No
- (iv) ANTI-SENSE: No
- (vi) ORIGINAL SOURCE: Synthetically prepared
- (vii) IMMEDIATE SOURCE: Same
- (x) PUBLICATION INFORMATION: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:26

CTGCGTTAGA CCGAGAACTG TGGATAAAGG 30

print seqlist.txt